

E05 Meeting



2015/10/20

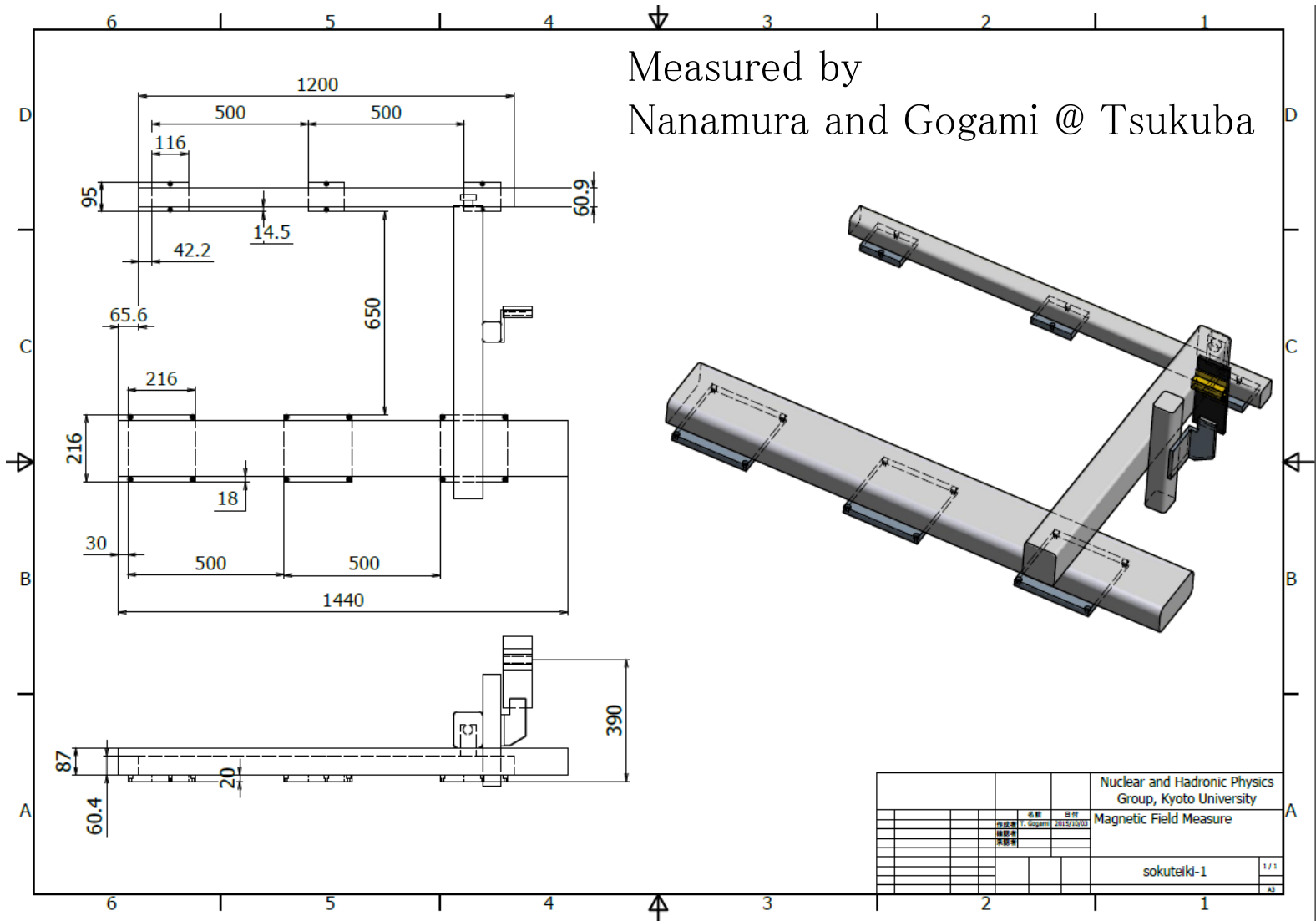
Toshiyuki Gogami

Contents

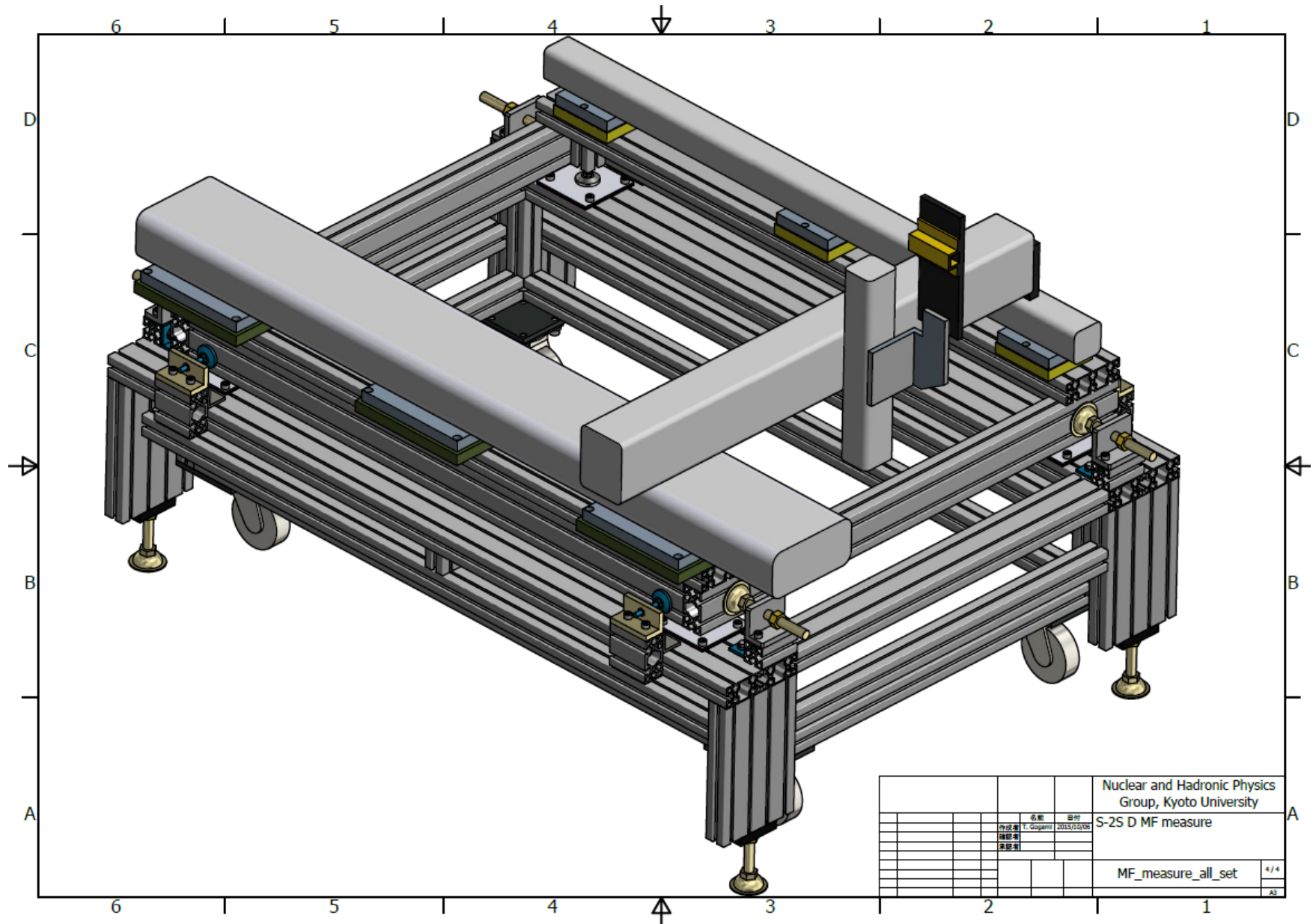
In preparation for MF measurement of S-2S D

Design of base

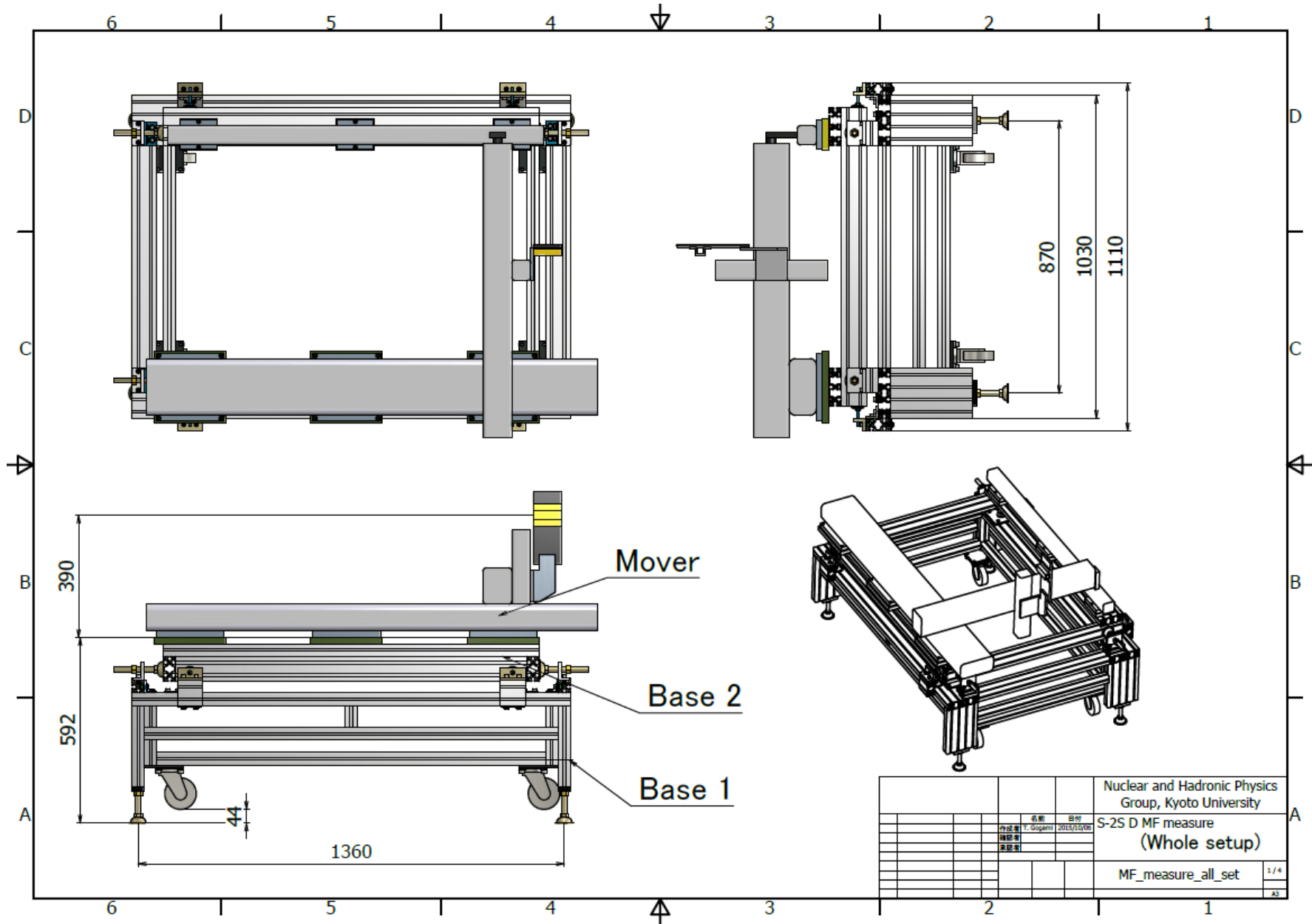
Measured the size of mapper (2015/10/1)



Preliminary design of table

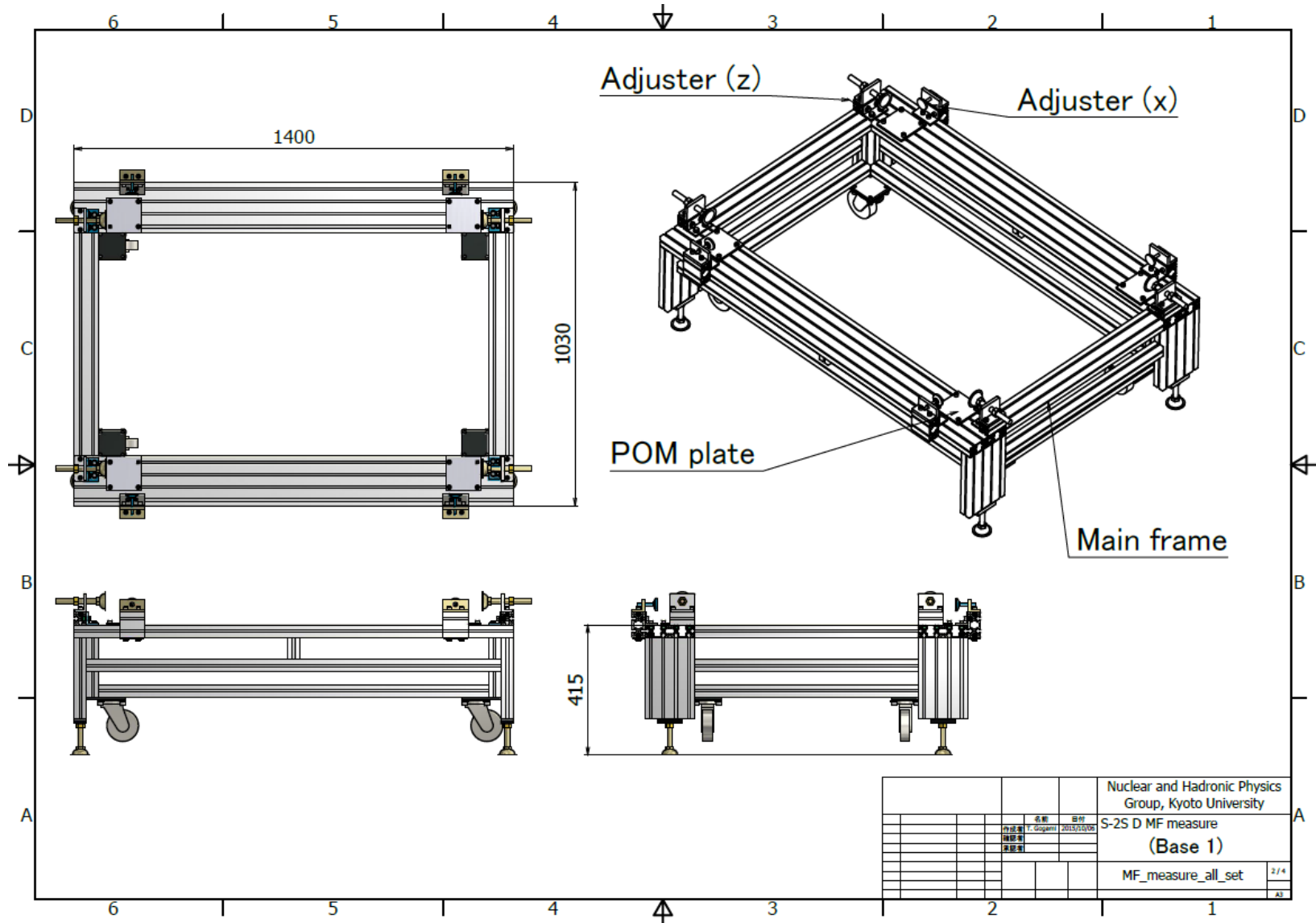


Mover (mapper) + Base1,2

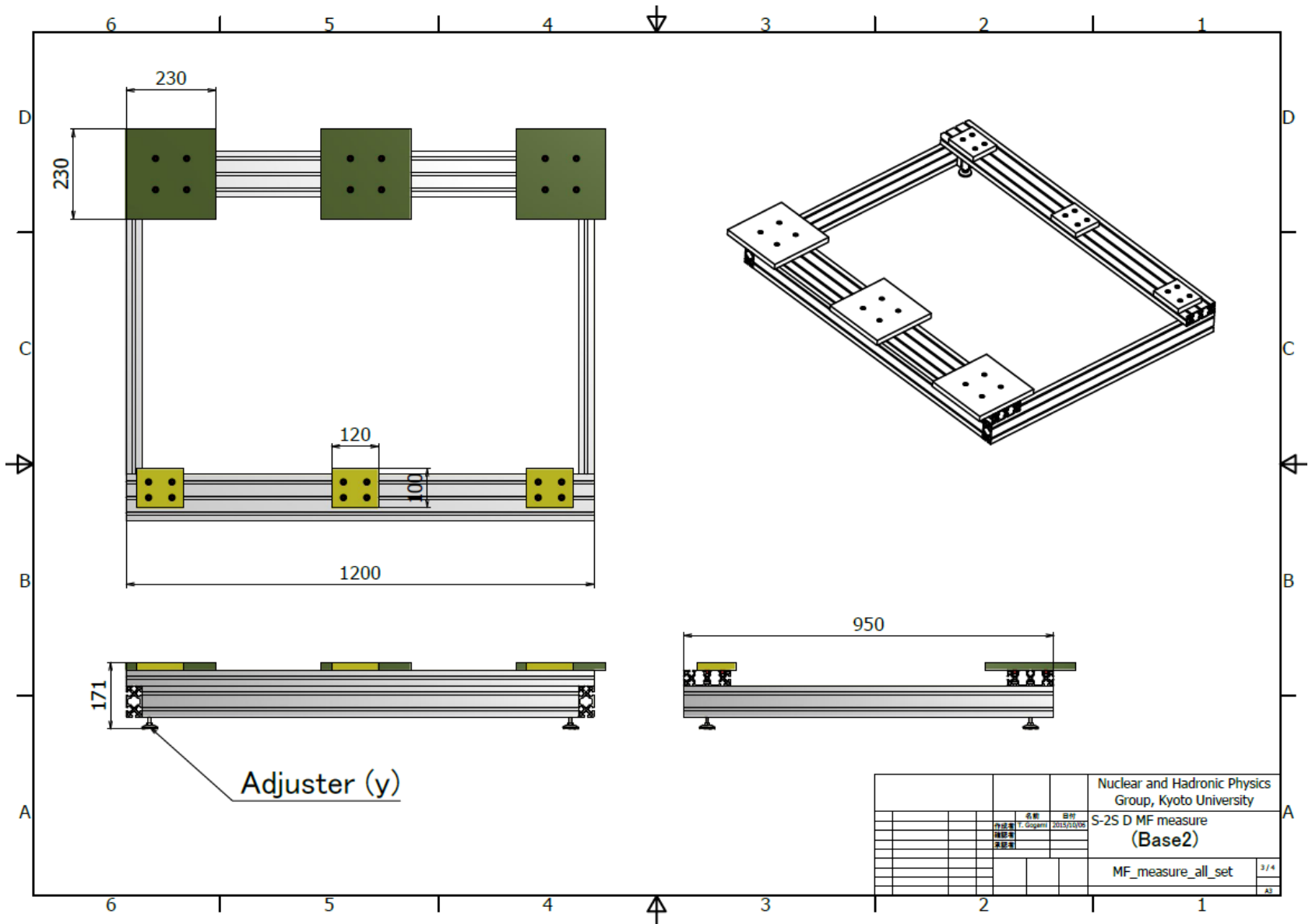


BASE1

(Rough level adjuster + fine xz adjuster)



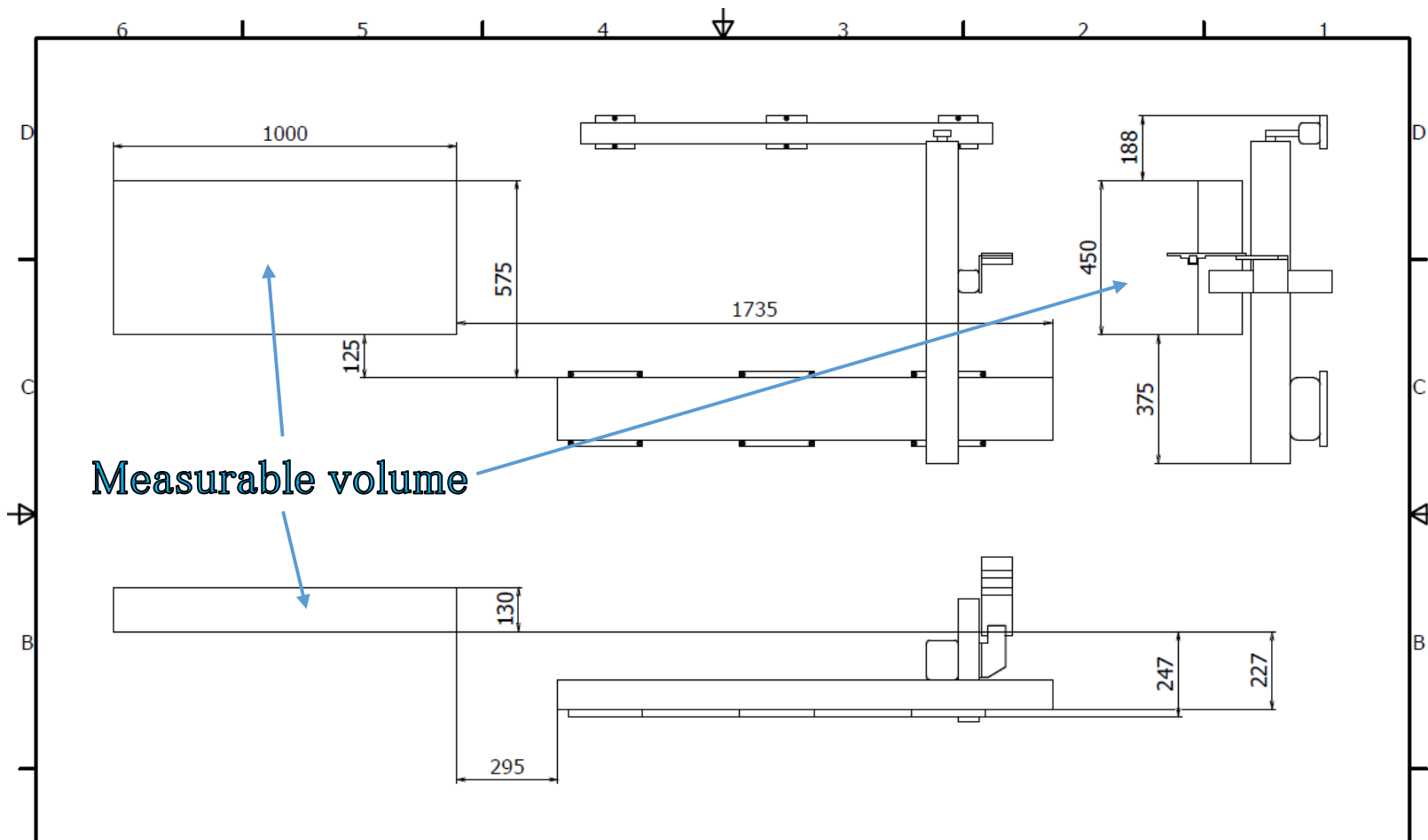
BASE2 (Fine level adjuster)



Where can the mapper measure ?
(relative to the designed base)

Measurable volume of the mapper

(with 1500 mm bar)

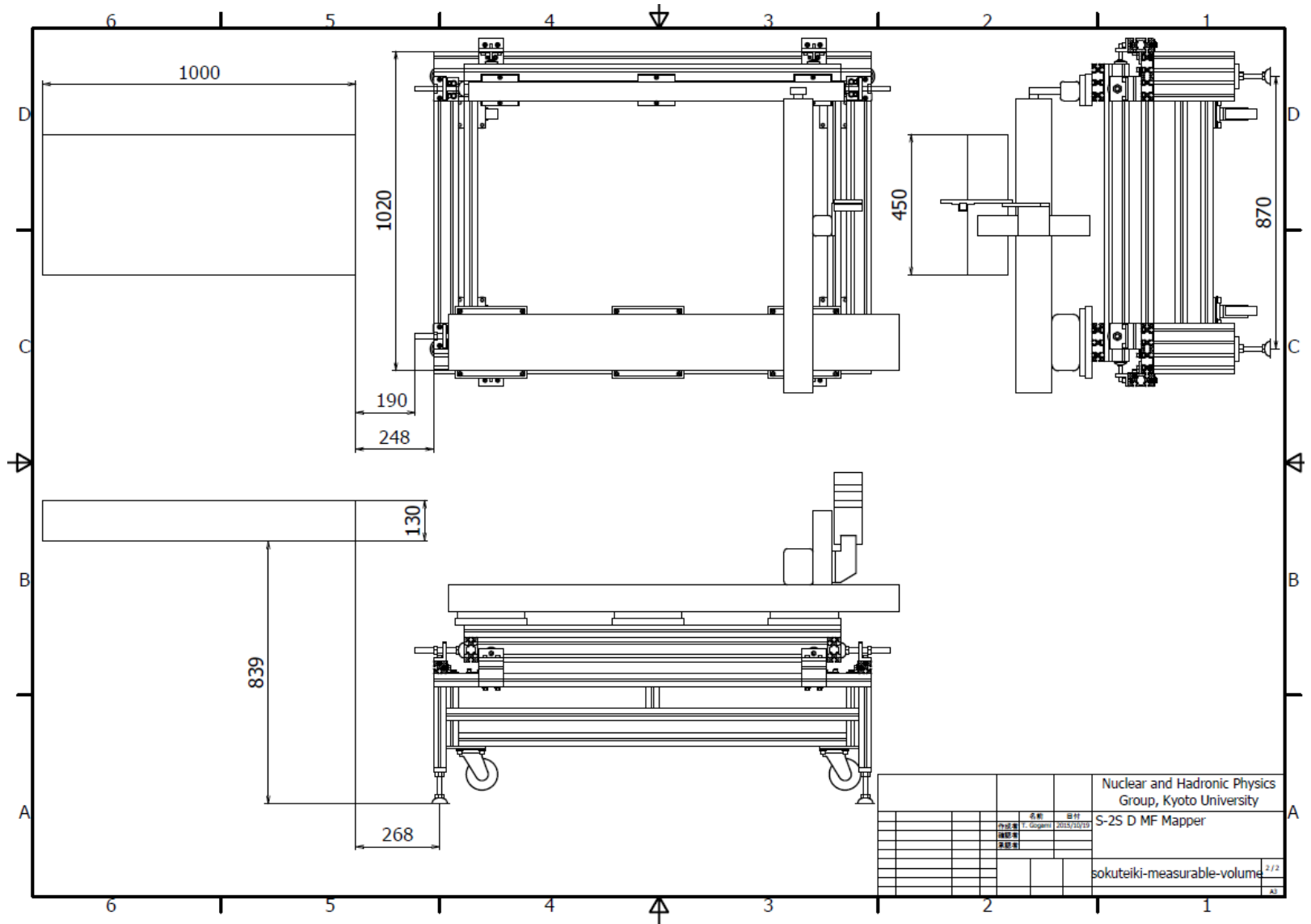


Muto-san told us how to operate the mapper →
 Checked measurable volume
 by Nanamura and Gogami @ Tsukuba (10/7)

		Nuclear and Hadronic Physics Group, Kyoto University	
		名称	S-2S D MF Mapper
		作製者	T. Gogami
		作製年	2015/10/19
		更新者	
		sokuteiki-measurable-volume	
		1/2	
		A3	

Measurable volume of the mapper

(with 1500 mm bar)



Soleplate

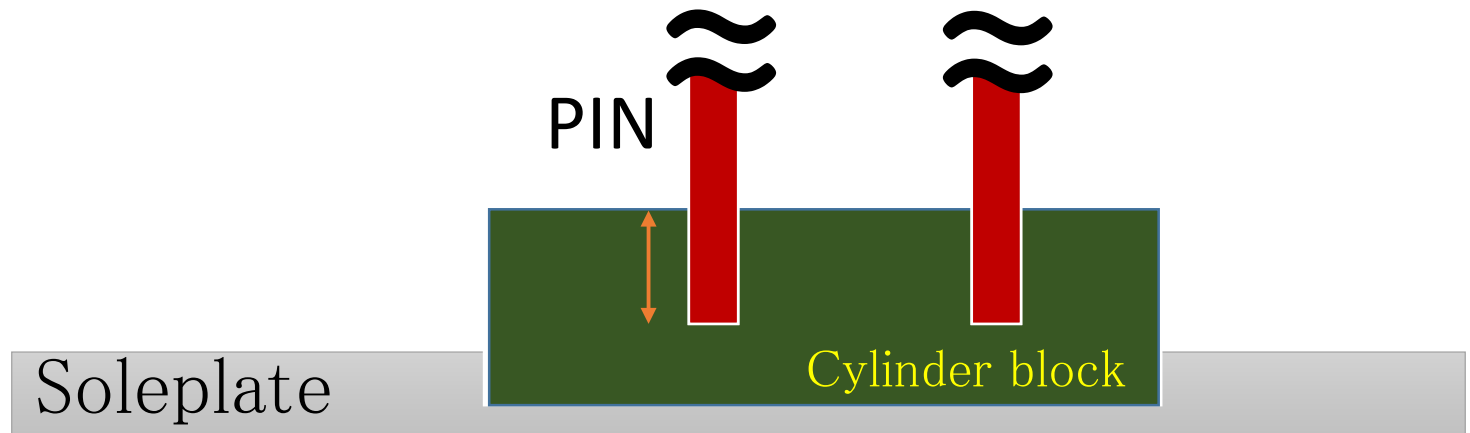
- a. Relative position of the mapper to measurable volume
- b. Measure points we want to measure

→ Soleplate

Soleplate

2週間くらいで届くかチェック!!
→ 七村君お願いします

- Material: Aluminum
- $1500 \times 2000 \text{ mm}^2$ with 30 mm thickness
 - ✓ 30 mm thickness might not be necessary (By Hitoshi-san)
 - ✓ スズノ技研、ミスミ (材料費のみで1枚60万円程度との見積)
 - ✓ Two or One ?
- Hole positions for pins



Three-Axis Probes



Hall probe and its readout

Model 460 3-Channel Gaussmeter



Front Panel

Back Panel

Model 460 Features

- Displays each axis simultaneously
- Vector magnitude reading
- Resolution to 5% digits (1 part out of $\pm 300,000$)
- Accuracy to $\pm 0.10\%$ of reading
- Peak capture
- Analog voltage outputs
- IEEE-488 and serial interface
- Can be operated with three individual probes, a single 2-axis probe and one individual probe, or a single 3-axis probe
- CE mark certification



Hall Probe and its readout

From Muto-san (2015/10/7) :

これでいいですか？

武藤です。
3軸ホールプローブの情報は

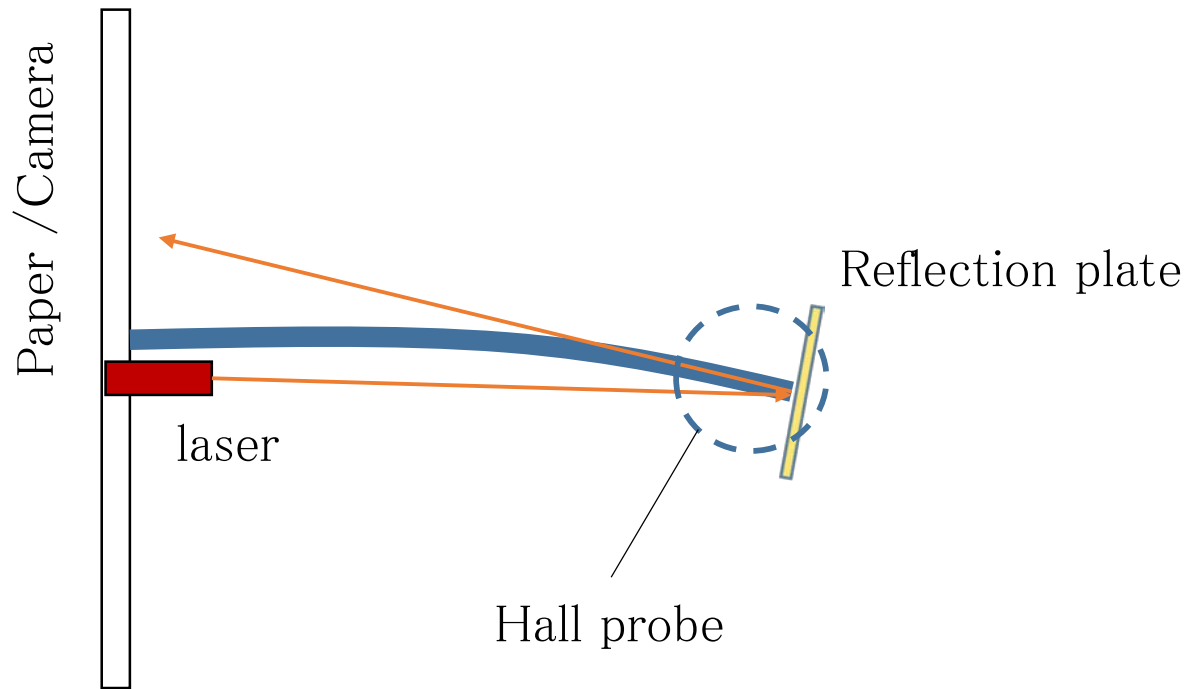
<http://www.lakeshore.com/products/hall-probes/multi-axis-probes/pages/Specifications.aspx>

にあります。
読み出しは

<http://www.lakeshore.com/products/gaussmeters/model-460-3-channel-gaussmeter/Pages/Overview.aspx>

Tawami (Flexure) measurement

Need to know flexure → Flexure calibration



This calibration can be done before/after the magnetic field measurement

上流側に関して

